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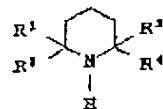
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(54) CATALYST FOR POLYMERIZING OLEFINS

(57)Abstract:

PURPOSE: To obtain a catalyst capable of providing a highly stereo-regular polymer having a well-ordered shape, acting in high activity in polymerizing an olefin, comprising a solid catalytic component prepared by a specific method, a piperidine derivative and an organoaluminum compound.



CONSTITUTION: A catalyst consisting of (A) a solid catalytic component obtained by preparing a uniform solution from a substance obtained by grinding magnesium chloride and silicon oxide, ≤ 2 pts.wt. based on 1 pt.wt. of the substance of a tetraalkoxytitanium, an aliphatic hydrocarbon (e.g. pentane or hexane) liquid at -30W50°C and an aliphatic alcohol (e.g. ethanol) liquid at -30W50°C, dripping TiCl₄ at ≤ 0 °C to the solution without causing sediment, heating the prepared solution while stirring, adding a phthalic diester to the solution at ≥ 80 °C while stirring, separating the prepared solid product and bringing TiCl₄ into contact with the solid product (B) a di- or tetra-substituted piperidine derivative shown by the formula (R1WR4 are H or alkyl) and (C) an organoaluminum compound.

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